

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Mu-Jing Li et al.

Title:

METHOD AND APPARATUS FOR EFFICIENTLY LOCATING AND

AUTOMATICALLY CORRECTING CERTAIN VIOLATIONS IN A

COMPLEX EXISTING CIRCUIT LAYOUT

Application No.: 10/686,471

Filed:

October 15, 2003

Examiner:

Thuan V. Do

Group Art Unit: 2825

Atty. Docket No.: 004-8063

April 26, 2004

COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

 $\boxtimes$ Form(s) PTO-1449

Other: List of Pending U.S. Patent Applications

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

- an admission that the information necessarily is, or corresponds to, prior art with 1. respect to the instant invention:
- a representation that a search has been made, other than as described below; or 2.
- 3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Pursuant to 1273 OG 55 (August 5, 2003), Information Disclosure Statements may be filed without copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract, (ii) an English language equivalent application, or (iii) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

## **FEE AUTHORIZATION**

This Information Disclosure Statement is filed within three months of the filing
date of a national application other than a continued prosecution application under
§ 1.53(d) or within three months of entry of the national stage as set forth in
§ 1.491 in an international application. Therefore, no fee is required.
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The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No. 50-0631.

CERTIFICATE OF MAILING OR TRANSMISSION
I hereby certify that, on the date shown below, this correspondence is being
deposited with the US Postal Service with sufficient postage as first class mail, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  facsimile transmitted to the US Patent and Trademark Office.  Andrew C. Graham  Date

EXPRESS MAIL LABEL:

Respectfully submitted

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Attorney Docket No.: 004-8063 Application No.: 10/686,471 Applicant(s): Mu-Jing Li et al. Filing Date: October 15, 2003 Group Art Unit: 2825 Date Submitted: April 26, 2004

## LIST OF PENDING U.S. PATENT APPLICATIONS

The following pending U.S. patent applications are listed for consideration by the Examiner.

1) U.S. Patent Application No. 10/461,041, filed June 13, 2003, entitled "Method, Apparatus, and Computer Program Product for Generation of a Via Array Within a Fill Area of a Design Layout," naming inventor Mu-Jing Li.

Applicant(s) are providing a separate list of pending applications, pursuant to MPEP § 609(D), to avoid publication of the application numbers on any patent that issues from the above-identified application. Applicant(s) request that the Examiner indicate consideration of the pending applications listed above in accordance with MPEP 609(C)(2) and return a copy of this page with the next communication.

U.S. Departme	ent of Com	merce, Patent and Tra	demark Offic	ce		Attorney Docket No.:	004-8063	
	-		Application No.:	10/686,471				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Applicant(s): Mu-Jing								
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				U.S. Patent Docu	ments			
*Examiner Initial	Alh	Documen Number	t	Date		Name		
	AA	5,620,916		04-15-1997	Eden et al.			
	AB	5,689,435		11-18-1997	Umney et a	ıl.		
	AC	5,706,295		01-06-1998	Suzuki			
	AD	5,926,723		07-20-1999	Wang			
	AE	5,970,238		10-19-1999	Shibata et	al.		
	AF	6,011,911		01-04-2000	Ho et al.		10".1"	
	AG	6,026,224		02-15-2000	Darden et	al.		
	AH	6,063,132		05-16-2000	DeCamp e	tal		
	AI	6,078,737		06-20-2000	Suzuki			
	AJ	6,189,136		02-13-2001	Bothra			
	AK	6,209,123		03-27-2001	Maziasz et	al.		
	AL	6,275,971		08-14-2001	Levy et al.			
	AM	6,324,673		11-27-2001	Luo et al.			
	AN	6,370,679		04-09-2002	Chang et a	1.		
	AO	6,374,395		04-16-2002	Wang			
	AP	6,378,110		04-23-2002	Но			
	AQ	6,446,873		09-10-2002	Geryk, N.			
				Foreign Patent Do	cuments			
	<del></del> 1			<b>T</b>	<del></del>		Trans	lation
		Documen	t	Date	<u> </u>	Country	Yes	No
	AR							
		OTHER	ART (Inclu	ding Author, Title	Date, Pertine	nt Pages, Etc.)		
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		(Use several she	Filing Date:	October 15, 20	003			
						Group Art Unit:	2825	
						Date Submitted:	April 26, 2004	
	744	•		U.S. Patent Doci	ıments			
*Examiner Initial		Document Number	t	Date		Name .		
	AV	6,457,163		09-24-2002	Yang		,- <u>.</u>	
	AW	6,461,877		10-08-2002	Holloway	et al.		
•	AX	6,484,302		11-19-2002	Freymuth			
	AY	6,487,706		11-26-2002	Barkley et	al.		· . ·
	AZ	6,536,023		03-18-2003	Mohan et a	fohan et al. ichardson et al.		
	BA	6,606,735		08-12-2003	Richardsor			
	BB	6,611,946		08-26-2003	Richardsor	et al.		
	BC	6,637,013		10-21-20003	Li			
	BD	6,718,527		04-06-2004	Li ·			
	BE	US 2002/0127479		09-12-2002	Pierrat			
	BF	US 2002/0174413		11-21-2002	Tanaka			
	BG	US 2003/0061583		03-27-2003	Malhotra			
	ВН	US 2003/0088843		05-08-2003	Mehrotra e	t al.		
	BI	US 2003/0182644	****	09-25-2003	Li et al.		Y.	
	BJ	US 2003/0196180		10-16-2003	Li et al			
	ВК	US 2003/0229860		12-11-2003	Li			
	BE	US 2003/0229862		12-11-2003	Li et al.			
			F	oreign Patent Do	cuments			
			· · · · · · · · · · · · · · · · · · ·	,			Trans	lation
		Document		Date	(	Country	Yes	No
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U.S. Department of Commerce, Patent and Trademark Office					Attorney Docket No.:	004-8063				
			Application No.:	10/686,471						
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		(Use several she	Filing Date:	October 15, 20	03					
				Group Art Unit:	2825					
						Date Submitted:	April 26, 2004			
				U.S. Patent Docui	nents					
*Examiner Initial						Name				
	BQ	US 2004/0019862		01-29-2004	Li et al.					
	BR	US 2004/0019866		01-29-2004	Li					
,	BS	US 2004/0019867		01-29-2004	Li					
	BT	US 2004/0019868		01-29-2004	Li					
	BU	US 2004/0025125		02-05-2004	Li					
	BV	US 2004/0063228	_	04-01-2004	Li et al.					
	BW	US 2004/0064795		04-01-2004	Li et al.					
	BX	US 2004/0064796		04-01-2004	Li					
	BY	US 2004/0064797		04-01-2004	Li					
				· · · ·						
		<u> </u>		Foreign Patent Doc	uments					
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		(Use several sh	Filing Date:	October 15, 2003				
					Group Art Unit:	2825		
					Date Submitted:	April 26, 2004		
*Examiner Initial								
	AA		"Hierarchical Dummy Fill for I muary 2001, pp. 139-144.	Process Uniformity	," Proc. Asia and South	Pacific Design		
•	AB	ANDREW B. KAHI Aided Design 18(4)	NG ET AL., "Filling Algorithm (1999) pp. 445-462.	ns and Analyses for	Layout Density Control,	" IEEE Trans. Computer		
•	AC	BARNES, "SKILL: 266-271.	A CAD System Extension Lan	guage," 1990 27 <sup>th</sup> .	ACM/EEE Design Autor	nation Conference, pp.		
	AD	KARAM ET AL., "I pp. 442-447.	High Level CAD Melds Micros	systems with Found	lries," 1996 European De	esign and Test Conference,		
	AE	LUO ET AL., "An E Checking," 1999 7 <sup>th</sup>	dge-Endpoint-Based Configura Annual IEEE Symposium on F	able Hardware Arc Field-Programmabl	hitecture for VLSI CAD e Custom Computing Ma	Layout Design Rule achines, pp. 158-167.		
	AF		ON, http://www.cadence.com/ n Systems, Inc., downloaded 5					
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